

Abstract

A linear motion device is disclosed which includes an armature assembly, and a field assembly which includes a plurality of permanent magnets each having a length, and a plurality of pole pieces each having a length. The ratio between the length of the plurality of permanent magnets and the length of the plurality of pole pieces is tailored to achieve a constant force versus stroke characteristic, when sinusoidal commutation is used.

1003353-123101
T.O.T.T. 852200T